## WHAT IS CLAIMED IS:

1. A disc-type coin processing device for processing a plurality of coins, comprising:

a rotatable disc for imparting motion to the plurality of coins; and

a stationary head having a lower surface generally parallel to and spaced slightly away from the rotatable disc, the lower surface having a plurality of shaped regions for controlling the movement of the coins, the lower surface having a solid lubricant disposed thereon.

10

5

- 2. The device of claim 1 wherein the solid lubricant comprises tungsten disulphide particles.
- 3. The device of claim 1 wherein the solid lubricant has a thickness of about one micron.
  - 4. The device of claim 1 wherein the solid lubricant has a thickness of less than about one micron.
- The device of claim 1 wherein the sorting head is constructed of a 4140 Alloy Prehard steel.
  - 6. The device of claim 1 wherein the sorting head is constructed of a Nitralloy 135 steel.

25

30

- 7. A stationary head for a disc-type coin processing device, the stationary head comprising at least one surface having a solid lubricant disposed thereon.
- 8. The stationary head of claim 7 wherein the solid lubricant comprises tungsten disulphide particles.

- 9. The stationary head of claim 7 wherein the solid lubricant has a thickness of about one micron.
- 10. The stationary head of claim 7 wherein the solid lubricant has a thickness of less than about one micron.

5

- 11. The stationary head of claim 7 wherein the stationary head is constructed of a 4140 Alloy Prehard steel.
- 12. The stationary head of claim 7 wherein the stationary head is constructed of a Nitralloy 135 steel.
  - 13. A method of processing coins, comprising;

receiving coins in a coin receiving region;

imparting motion to the coins with a rotatable disc; and

engaging the coins with a surface of a stationary sorting head coated with a solid lubricant while imparting motion.

14. The method of claim 13 further comprising sorting the received coins according to denomination.

20

25

15

- 15. The method of claim 14 wherein sorting comprising discharging coins from a plurality of coins exit channels formed in the surface of the sorting head.
- 16. A method of constructing a sorting head for a disc-type coin sorter, the method comprising:

providing generally disc-shaped metal object; machining a plurality of shaped regions in a first surface of the object; forming a plurality of dimples in the first surface of the object; and depositing a solid lubricant on the first surface of the object.

30

- 17. The method of claim 16 comprising polishing the first surface of the object after machining.
- 18. The method of claim 16 comprising subjecting the object to a nitride and heat treatment process after machining.
  - 19. The method of claim 17 wherein the sold lubricant comprises tungsten disulphide particles.
- 10 20. The method of claim 19 wherein the dimples are sized to corresponding to the tungsten disulphide particles.
  - 21. The method of claim 16 comprising polishing the first surface of the object after depositing the solid lubricant.

5